

Herbicide Programs for Conventional Corn

Brooklyn, WI 2022

Trial Information

Trial Sponsor: Wisconsin Cropping Systems Weed Science

Objective: Evaluate various corn herbicide programs for season long weed control in conventional corn

Crop: Corn

Hybrid: O'Brien Hybrids OB1105

Weed species (pressure): waterhemp (moderate-very high)

Herbicide Application(s): PRE – 5/23

POST – 6/24 (V5 corn)

For the full report see trial #22-BRO-CN12 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Waterhemp				Yield ^b bu acre ⁻¹
		6/14	6/22	7/8	9/29	
1	Untreated Check	0	0	0	0	161 b
Two-Pass – PRE (5/23) <i>fb</i> POST (6/24)		POST				
2	Harness MAX (2 qt) <i>fb</i> Capreno (3 oz) + Superb HC 0.5% v/v + AMS (2 lb)	100	99	93	93	235 a
3	Harness MAX (2 qt) <i>fb</i> Diflexx Duo (28 oz) + COC 1% v/v + AMS (2 lb)	100	95	95	99	214 a
4	Acuron Flexi (1.1 qt) <i>fb</i> Acuron Flexi (1.1 qt) + NIS 0.25% v/v + AMS (2 lb)	92	65	59	69	199 a
5	Verdict (16 oz) <i>fb</i> Armezon (1 oz) + Status (5 oz) + MSO 1% v/v + AMS (2 lb)	91	70	81	93	220 a
6	Verdict (10 oz) + Callisto (3 oz) <i>fb</i> Armezon PRO (16 fl oz) + MSO 1% v/v + AMS (2 lb)	92	69	58	71	221 a
7	Surestart II (2 pt) <i>fb</i> Accent Q (0.9 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	97	87	85	99	234 a
8	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Revulin Q (4 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	100	98	98	100	217 a
9	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Revulin Q (4 oz) + Status (5 oz) + Zidua SC (3 oz) + COC 1% v/v + AMS (2 lb)	100	97	99	100	216 a
10	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Shieldex (1 oz) + Accent Q (0.9 oz) + COC 1% v/v + AMS (2 lb)	100	96	78	97	236 a
11	Harness (2 pt) + Princep 4L (1 qt) <i>fb</i> Laudis (3 oz) + Warrant (48 oz) + MSO 1% v/v + AMS (2 lb)	99	95	88	94	210 a
12	Dual II Magnum (1.67 pt) + Princep 4L (1 qt) <i>fb</i> Callisto (3 oz) + Status (5 oz) + COC 1% v/v + AMS (2 lb)	98	87	93	97	218 a
		LSD ($\alpha=0.10$)	3	9	9	6
		p value	<.001	<.001	<.001	<.001
			33			
			0.055			

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

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Plot pictures taken on 6/14
22 days after the PRE application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

22 days after PRE (6/14)

Untreated Check

0%



**22 days after PRE (6/14)
PRE: 2 qt Harness MAX**

100%



**22 days after PRE (6/14)
PRE: 1.1 qt Acuron Flexi**

92%



22 days after PRE (6/14)

PRE: 16 fl oz Verdict

91%



22 days after PRE (6/14)

92%

PRE: 10 fl oz Verdict + 3 fl oz Callisto



22 days after PRE (6/14)

PRE: 2 pt SureStart II

98%



22 days after PRE (6/14)

PRE: 2 pt Harness + 1 qt Princep 4L

100%



1

22 days after PRE (6/14)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

98%



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Plot pictures taken on 6/22

30 days after the PRE application
2 days before the POST application

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications

30 days after PRE (6/22)

Untreated Check

0%



30 days after PRE (6/22)
PRE: 2 qt Harness MAX

97%



**30 days after PRE (6/22)
PRE: 1.1 qt Acuron Flexi**

65%



30 days after PRE (6/22)

PRE: 16 fl oz Verdict

70%



30 days after PRE (6/22)

PRE: 10 fl oz Verdict + 3 fl oz Callisto

69%



30 days after PRE (6/22)

PRE: 2 pt SureStart II

87%



30 days after PRE (6/22)

PRE: 2 pt Harness + 1 qt Princep 4L

97%



30 days after PRE (6/22)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

87%



Herbicide Programs for Conventional Corn

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Plot pictures taken on 7/7

45 days after the PRE application
13 days after the POST application

The number in the upper right-hand corner is the average %
waterhemp control of 4 replications

45 days after PRE (7/7)

Untreated Check

0%



13 days after POST (7/7)

PRE: 2 qt Harness MAX fb

POST: 3 fl oz Capreno + 0.5% Superb HC + 2 lb AMS

93%



13 days after POST (7/7)

PRE: 2 qt Harness MAX fb

POST: 28 fl oz Diflexx Duo + 1% COC + 2 lb AMS

95%



13 days after POST (7/7)

PRE: 1.1 qt Acuron Flexi

POST: 1.1 qt Acuron Flexi + 0.25% NIS + 2 lb AMS

59%



13 days after POST (7/7)

PRE: 16 fl oz Verdict

POST: 1 fl oz Armezon + 5 oz Status + 1% MSO + 2 lb AMS

81%



13 days after POST (7/7)

PRE: 10 fl oz Verdict + 3 fl oz Callisto

58%

POST: 16 fl oz Armezon PRO + 1% MSO + 2 lb AMS



13 days after POST (7/7)

PRE: 2 pt SureStart II

POST: 0.9 oz Accent Q + 5 oz Status + 1% COC + 2 lb AMS

85%



13 days after POST (7/7)

PRE: 2 pt Harness + 1 qt Princep 4L

POST: 4 oz Revulin Q + 5 oz Status + 1% COC + 2 lb AMS

98%



13 days after POST (7/7)

PRE: 2 pt Harness + 1 qt Princep 4L

99%

POST: 4 oz Revulin Q + 5 oz Status + 3 fl oz Zidua SC + 1% COC + 2 lb AMS



13 days after POST (7/7)

PRE: 2 pt Harness + 1 qt Princep 4L

POST: 1 fl oz Shieldex + 0.9 oz Accent Q + 1% COC + 2 lb AMS

78%



13 days after POST (7/7)

PRE: 2 pt Harness + 1 qt Princep 4L

POST: 3 fl oz Laudis + 48 fl oz Warrant+ 1% MSO + 2 lb AMS

88%



13 days after POST (7/7)

PRE: 1.67 pt Dual II Magnum + 1 qt Princep 4L

93%

POST: 3 fl oz Callisto + 5 oz Status + 1% COC + 2 lb AMS

